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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/661,121	09/12/2003	Yuan-Sheng Tyan	85794RLO	6454
7	590 09/16/2004		EXAMINER	
Thomas H. Close			GARRETT, DAWN L	
Patent Legal St			ADDLIN WE	D. 1000 1444 4000
Eastman Kodal	Eastman Kodak Company ART UNIT		ARTUNIT	PAPER NUMBER
343 State Street			1774	
Rochester, NY 14650-2201			DATE MAILED: 09/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Commence	10/661,121	TYAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Dawn Garrett	1774	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered tim the mailing date of this D (35 U.S.C. § 133).	ely. communication.
Status			
1) Responsive to communication(s) filed on 12 S	eptember 2003.		
2a) This action is FINAL . 2b) ☐ This	action is non-final.		
3) Since this application is in condition for allowa	nce except for formal matters, pro	secution as to th	ne merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-10 is/are pending in the application			
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)⊠ Claim(s) <u>1-4 and 7</u> is/are allowed.			
6)⊠ Claim(s) <u>5,6 and 8-10</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 29 December 2003 is/a	re: a)⊠ accepted or b)⊡ object	ed to by the Exa	miner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	•		` ,
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form P	TO-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	• • • • • • • • • • • • • • • • • • • •	-(d) or (f).	
 Certified copies of the priority document Certified copies of the priority document 		on No	
2. Certified copies of the priority document3. Copies of the certified copies of the priority	• •	<u> </u>	ol Stage
application from the International Burea		tu iii tiiis ivationa	ii Stage
* See the attached detailed Office action for a list	, ,,	d.	
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte	-0.450\
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>9-12-2003</u>. 	5) Notice of Informal P 6) Other:	atent Application (P1	O-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 5, 6, 9 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claims 5 and 6 recite "the hole-transporting layer"; however, claim 1, upon which these claims depend, does not recite a hole transporting layer and accordingly, the position of stabilizer in the hole transporting layer can not be determined.
- 4. Claim 9 recites "the semitransparent electrode layer"; however, claim 8 upon which claim 9 depends only sets forth "a metallic anode and a metallic cathode" and does not set forth or describe a semitransparent electrode layer. Accordingly, it is unclear which electrode is semitransparent. Clarification and/or correction are required.
- 5. Claim 10 recites "reflective electrode layer"; however, claim 8 upon which claim 9 depends only sets forth "a metallic anode and a metallic cathode" and does not set forth or describe a reflective electrode layer. Accordingly, it is unclear which electrode is reflective. Clarification and/or correction are required.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatwar et al. (US 6,692,846). Hatwar et al. discloses a blue emitting electroluminescent device comprising (according to example 8) a doped light emitting layer (see col. 12, lines 27-29) and a hole transport layer doped with rubrene (see col. 12, lines 46-47). Although not exemplified, Hatwar et al. further teaches a color filter layer may be used in the device (see col. 6, lines 61-64). It would have been obvious to have included a color filter (color conversion layer) in the device of example 8, because Hatwar et al. teaches such a filter may be included if desired. The electrodes of the example 8 device are comprised of ITO and Mg:Ag. Both materials are considered to be metallic as they comprise metal elements. Per claim 9, Ag is disclosed as a cathode material (the type of electrode layer is not specified by this claim). Per claim 10, an alloy of Ag and Mg is taught.

Allowable Subject Matter

8. Claims 1-4 and 7 are allowed. The prior art fails to teach an OLED with semitransparent and opaque electrodes forming a microcavity that emits a specific color and wherein this specific color is the same color as a dopant in the light emitting layer and there is a further stabilizing compound in the device emitting light of a color different from the specific color. Claims 5 and 6 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dawn Garrett whose telephone number is 571-272-1523. The

examiner can normally be reached Monday through Friday during normal business hours. Please

allow the examiner twenty-four hours to return your call.

If reasonable attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Rena Dye, can be reached at 571-272-3186. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bun Yauett Dawn Garrett

Primary Examiner

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D.G.

September 14, 2004